

PATENT ABSTRACTS OF JAPAN

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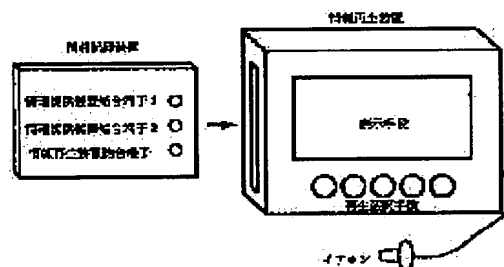
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(54) INFORMATION PROVIDING SYSTEM

(57)Abstract:

PURPOSE: To easily sell/purchase information while protecting the copyright of a copyright reserver.

CONSTITUTION: Information can be recorded in a recording medium in an information recording device loadable/ejectable to/from an information reproducing device. In the loaded state of the recording device in the reproducing device, the information in the medium can be reproduced by the reproducing device. On the other hand, management information can be recorded in the recording device and the management information is updated in accordance with the using state of information. When recorded contents reach a prescribed volume of information to be used, the succeeding information reproducing is inhibited to protect copyright. The recording device can be loaded/ejected to/from an information providing device, and in the loaded state of the recording device to the providing device, required information is recorded in the recording medium of the recording device. Simultaneously management information is updated and information corresponding to the amount of payment can be used.



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CLAIMS

[Claim(s)]

[Claim 1] It is the information offer system characterized by to manage informational offer by the information offer management information which the above-mentioned information recording device has the information Records Department and the information offer management information. Records Department inside in the information offer system which records information on the information recording device made into portable structure, and equips a predetermined information regenerative apparatus with this information recording device, and reproduces the information on an information recording device, and was recorded beforehand.

[Claim 2] The above-mentioned information recording device is an information offer system which wearing to information offer equipment equipped with the record medium with which information was recorded on the interior in the information offer system according to claim 1 of is enabled, and is characterized by carrying out transfer record of the information currently recorded on the above-mentioned record medium at the above-mentioned information recording device.

[Claim 3] According to the information which the above-mentioned information offer equipment equipped the interior with the reading means of the information on the above-mentioned information recording device in the information offer system according to claim 1, and was read in the above-mentioned information recording device by the above-mentioned reading means, it is the information offer system characterized by transmitting the information currently recorded on the above-mentioned record medium to the above-mentioned information recording device.

[Claim 4] It is the information offer system characterized by the above-mentioned information recording device using semiconductor memory for the interior as the information Records Department in an information offer system according to claim 3 from a claim 1.

[Claim 5] The information offer system characterized by performing a transfer of the information from the above-mentioned record medium to this information recording device in an information offer system according to claim 3 using an electric terminal from a claim 1.

[Claim 6] The information offer system characterized by transmitting the information from the above-mentioned record medium to this information recording device by non-contact electrically in an information offer system according to claim 3 from a claim 1.

[Claim 7] The information offer system characterized by reproducing information based on the information which starts the above-mentioned right in the information which the

information which starts the right of provided information in an information offer system according to claim 3 at the above-mentioned information offer management information Records Department from a claim 1 was recorded, and was transmitted from the above-mentioned information offer equipment.

DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[Industrial Application] this invention relates to the equipment which offers information, such as news and music, quickly.

[0002]

[Description of the Prior Art] For example, as stated to the patent public presentation No. 118690 official report in Heisei 3 "Radio or a cable connects with the control machine for information sending. An information input means, If the technology of the exhaust port of a record means to record the information inputted from this input means on an information record medium, and this information record medium, and the information offer equipment characterized by consisting of payment systems" is known and this is used For example, a cassette tape on hand can be set in information offer equipment, and information, such as news and music, can be dubbed and offered through information offer equipment by carrying out settlement-of-accounts processing of coin, a card, use frequency management, etc.

[0003] And while a user inserts record media, such as a cassette tape, in the insertion mouth of information offer equipment as the example, dropping of coin and informational selection are performed, information offer equipment dubs information to the information record medium inserted based on them, and the method of discharging a record medium from the same exhaust port as an insertion mouth is indicated.

[0004]

[Problem(s) to be Solved by the Invention] however, although a cassette tape etc. does not become a problem by the above-mentioned method when dubbing speed is slow, when dubbing to the record medium using semiconductor memory is considered, for example In spite of ending dubbing to a record medium in an instant, with suction and exocytosis of the record medium of information offer equipment Information selection operation of each user and injection operation of coin became ****, and each user is able to occupy information offer equipment until these operations were completed, and he was not able to supply

information to many users quickly.

[0005]

[Means for Solving the Problem] Then, by the method by this invention, when each user makes the information recording device inserted in the insertion mouth itself memorize beforehand information, such as how to pay information selection or the charge of information offer, and provides it with information according to it, many users are enabled to use information offer equipment one after another.

[0006]

[Example] Hereafter, the desirable example of this invention is explained, referring to a drawing. Drawing 1 shows the appearance of the example of the information recording device concerning the method of this invention, and an information regenerative apparatus. This information recording device has equipped the interior with the record medium. Although there is especially no limitation in the kind of this record medium, in this example, at high speed, the possibility of a copy and random access are easy, and are using the IC memory excellent also in portability. Moreover, two information offer equipment joint terminals are equipped, and through one of these, information offer equipment can read the management information in a record medium, and can copy information to a record medium from information offer equipment through another side. Furthermore, an information regenerative-apparatus joint terminal is also equipped and the information reproduced from the record medium through this can be sent to an information regenerative apparatus. However, in fact, you may constitute two information offer equipment joint terminals of an information recording device, and information regenerative-apparatus joint terminals so that it may be used changing one or two terminals.

[0007] The information regenerative apparatus is equipped with the display means and the reproduction selection means, and the contents of the information recorded on the information recording device can be displayed on a display means. Based on what was displayed here, the user of equipment can use reproduction selection meanses, such as a button, and can reproduce required information alternatively. Especially the informational contents are not limited including text information, speech information, image information, a computer program, etc. Although reproduction of a program means performing the program here, a user may input information in this case if needed at the time of execution. In the case of a text or a video signal, it can display on the display means made with liquid crystal equipment etc., and when a regenerative signal is speech information, it can output to an earphone.

[0008] Drawing 2 is the external view of the example of the information offer equipment known from the former, in order to transmit information to the information recording device

shown in drawing 1 . A record medium is installed in information offer equipment, and information is recorded. The equipment of the example of drawing 2 is equipped with a display means to display the contents, a price, etc. of the information currently recorded, and an output selection means to choose which information is outputted from an information offer means, and an information acquisition candidate can choose information needed. Informational acquisition inserts the information record regenerative apparatus which he has in the insertion exhaust port of information offer equipment, or an information recording device, and is realized by receiving a copy. When using this information offer equipment, although the information acquisition candidate could receive his information needed alternatively, in order in being long to carry out time occupancy and for each information acquisition candidate to provide a lot of people with information for the information offer equipment quickly, he was difficult.

[0009] Drawing 3 is the external view of the example of the information offer equipment by this invention devised in order to cancel such a fault of the conventional technology. With this information offer equipment, an information acquisition candidate can only insert a record medium in an insertion mouth, and can receive the information for which it wishes. Moreover, a display means to display the contents, a price, etc. of the information recorded for a check is also equipped. For this reason, since many people do not occupy information offer equipment for a long time, if this information offer equipment is used, it is possible to provide many people with information quickly.

[0010] Drawing 4 is an information transfer means. 2001 An internal configuration is shown. For example, a control signal 199 is a reading means. 2010 Terminal of the record medium currently recorded beforehand to an information recording device 2009 It is gone and read. Reading means 2010 Control signal of a shell Information record means which consisted of semiconductor memory etc. based on 200 2012 The information currently recorded Control means 2011 Control signal of a shell According to 201, it is sent to a record means (203), and is a terminal further. 2014 It leads and is sent to the terminal of an information recording device. this information 204 -- reading means 2010 from -- control signal 200 -- being based -- control means 2011 from -- control signal Record means controlled by 202 2013 It is recorded on the information record medium in an information recording device by operation.

[0011] Drawing 5 is an information transfer means. 2001 Another example of an internal configuration is shown. the method non-contact in information transfer with this example it carries out by 301 -- having -- information transfer means 2001 **** -- receiving means 2020 Transmitting means 2021 It is equipped. moreover, this case -- information recording device 1001 **** -- transmitting means 1030 Receiving means 1031 And record means 1032 it equips -- having -- these operations -- information record medium 1012 Record is performed.

[0012] Drawing 6 is an information recording device concerning this invention. 1001 and information regenerative apparatus 1002 It is the block diagram having shown the example of an internal configuration. information recording device 1001 **** -- information record medium 1012 and right management tool 1011 it equips -- having -- moreover, management information 1013 It is recorded. This management information 1013 It reads and is a means. 2010 It is read. management information 1013 writing -- memory (ROM) etc. -- it may carry out, and you may record fixed, and rewriting is made possible, in case a user purchases a recording device, it can record by the dedicated device of a shop front, or a user may enable it to input using reproduction selecting arrangement beforehand, and it does not limit especially here

[0013] right management tool 1011 for example, -- It consists of a CPU and memory and the residual frequency showing how many times the information in the right which reproduces the information currently recorded on the information record medium, for example, an information record medium, is reproducible the back is recorded on this memory. information regenerative apparatus 1002 **** -- reproduction selection means 1021 and display means 1022 and reproduction control means 1023 and information reproduction means 1024 It is equipped. Right management tool 1011 It is the information record medium 1012 first. Information, such as frequency of a right required for the kind of information own [the] or reproduction among the information currently recorded 102 is read and they are reproduction control means. 1023 Communication 104 It transmits. Reproduction control means 1023 It is a display means about the content. 1022 It displays. An information use candidate is a reproduction selection means. 1021 It uses and is an information record medium. 1012 When it chooses which is reproduced among what is recorded, it is the selection information. 106 is reproduction control means. 1023 It is sent and the information communicates further. 104 is led and it is a right management tool. 1011 It is sent.

[0014] Right management tool 1011 It investigates whether it is more than frequency required for residual frequency to reproduce the information, if that is right, supposing [both] reproduction of the information is possible, required frequency will be subtracted from residual frequency, otherwise, suppose that reproduction is impossible. It is a control signal if reproduction is good. It is an information record medium about 103. 1012 That is communicated while transmitting. They are reproduction control means by 104. 1023 It transmits. Information record medium which received the control signal of reproducing information 1012 The information currently recorded is outputted and it is an information reproduction means. 1024 It transmits. (108) . Control signal of the information reproduction from reproduction control means An information reproduction means by which 107 was sent 1024 is the received information. 108 is changed and outputted to a sound signal etc. (109) .

[0015] Thus, when using the information recording device and information regenerative apparatus which were shown in drawing 6 and information is supplied using the information offer equipment by this invention shown in drawing 2, selection and settlement of accounts of the information use can be realized at the time of reproduction. Furthermore, it is the above-mentioned right management tool. 1011 When residual frequency reaches below frequency required to reproduce the information, it is supposed that it is possible to increase residual frequency. Namely, information regenerative apparatus 1002 Connection with the right feeder which is not illustrated is enabled and it communicates. Residual frequency can be increased through 104. That is, by paying in a predetermined information toll, from a copyright person, permission is obtained and the increase signal of residual frequency is received. The increase signal of residual frequency is an information regenerative apparatus temporarily. 1002 It is written in an inner buffer memory and is an information recording device further. 1001 The inner above-mentioned right management tool 1011 Residual frequency is increased. Therefore, above-mentioned information record medium 1012 Information becomes reproducible again.

[0016]

[Effect of the Invention] If the information offer equipment by the method of this invention is used so that clearly also from the above explanation, it is possible to provide many men with information quickly, and, moreover, information use can also be settled.

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